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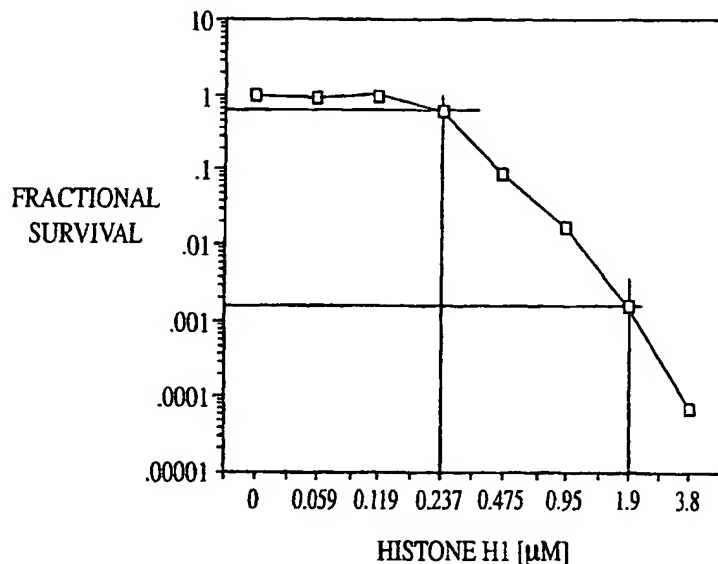
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ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: ANTIMICROBIAL HISTONE H1 COMPOSITIONS, KITS, AND METHODS OF USE THEREOF



(57) Abstract: The invention includes antibiotic pharmaceutical compositions comprising eukaryotic histone H1 protein and meth-
ods of using eukaryotic histone H1 protein to kill or to inhibit the growth of microorganisms, including, but not limited to, human
pathogenic bacteria. The invention further includes a eukaryotic histone H1-containing animal feed and methods of improving
growth of an animal by supplying the feed to the animal. The invention still further includes a kit comprising a eukaryotic histone
H1-containing antibiotic pharmaceutical composition and an instructional material which describes the use of the composition. In
addition, the invention includes a vaccine comprising a eukaryotic histone H1 protein and a method of vaccinating an animal using
the vaccine.

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According to International Patent Classification (IPC) or to both national classification and IPC

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61K C07K

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EPO-Internal, CHEM ABS Data, EMBASE, BIOSIS, MEDLINE, PAJ

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| X | WO 99 37318 A (SAMYANG GENEX CORPORATION) 29 July 1999 (1999-07-29) claims 1-5 --- | 1,2,5,7 |
| X | DE 197 15 149 A (SYMBIOTEC ...) 15 October 1998 (1998-10-15) claims 1-24 --- | 1-3,5,7 |
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| | --- | |

☒ Further documents are listed in the continuation of box C.

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8 document member of the same patent family

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INTERNATIONAL SEARCH REPORT

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|------------------------|
| X | EP 0 392 315 A (SYMBIOTEC ...) 17 October 1990 (1990-10-17) claims 1-8 ---- | 1,2,5-7 |
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
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| GB 563651 A | | NONE | |

Second, 37 CFR 1.98(c) states that when the disclosures of two or more patents or publications listed in an information disclosure statement are substantively cumulative, a copy of one of the patents or publications may be submitted without copies of the other patents or publications provided that a statement is made that these other patents or publications are cumulative. The examiner will then consider only the patent or publication of which a copy is submitted and will so indicate on the list, form PTO-1449, or PTO/SB/08A and 08B, submitted, e.g., by crossing out the listing of the cumulative information. But see *Semiconductor Energy Laboratory Co. v. Samsung Electronics Co.*, 204 F.3d 1368, 1374, 54 USPQ2d 1001, 1005 (Fed. Cir. 2000) (Reference was not cumulative since it contained a more complete combination of the claimed elements than any other reference before the examiner. "A withheld reference may be highly material when it discloses a more complete combination of relevant features, even if those features are before the patent examiner in other references." (citations omitted).).

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Images Description and Claims (94 Kb)

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(51)⁶ A61K 38/16, G01N 33/574 // (C07K 14/705)

(54) THERAPEUTIC, PROPHYLACTIC AND DIAGNOSTIC AGENT FOR
CANCER, USEFUL FOR CHARACTERISING CANCER CELLS WITH
INDIVIDUAL PROPERTIES

(71) SYMBIOTEC GESELLSCHAFT ZUR FORSCHUNG UND
ENTWICKLUNG AUF DEM GEBIET DER BIOTECHNOLOGIE MBH
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SK, TR, UA, US

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Published

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-- before the expiration of the time limit for amending the claims and to be
republished in the event of receipt of amendments

(57) A therapeutic or prophylactic agent for cancer is disclosed which damages the membrane and kills cancer cells, in particular of the blood-forming system, having membrane protein aggregates which contain several core histones or largely core-like histones and/or their parts. The therapeutic or prophylactic agent contains at least one pure histone or its active sequence section selected from the group composed of histone H1, H1 subtypes, H2A, H2B, H2A:H2B dimer, H3 and H4, covalent modified histones of the above-mentioned type and/or their active sections and functionally

and structurally similar proteins (protamines, histone-like proteins of prokaryotic and archae bacteria).



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